

Bekleshova, G. Ye.

AUTHORS: Usatenko, Yu.I., Bekleshova, G.Ye.

32-12-2/71

TITLE: Determination of Zirconium by Amperometric Titration by Application of Cupferron (Opredeleniye tsirkoniya amperometricheskim titrovaniyem s primeneniym kupferona).

PERIODICAL: Zavodskaya Laboratoriya, 1957, Vol. 23, Nr 12, pp. 1406-1407 (USSR)

ABSTRACT: A similar method was suggested already in Zavodskaya Laboratoriya, 1957, Vol. 21, Nr 7, pp. 779-779, i.e. with respect to the application of titrated cupferron solutions when determining elements which form compounds or precipitations undissolvable with cupferron. Here it is specially pointed out that such applications have been undertaken already in previous times by Olson and Elving (1954), but that this method in practice proved to be too complicated. The use of a zirconium dioxide solution for the determination of zirconium is suggested by the present paper, which was obtained by blending of this substance with soda at 1200° and consecutive de-leaching by hydrochloric acid. For carrying out the experiment the application of the already previously described amperometric device and the method (as for the determination of titanium) is recommended. In this case the addition of sodium chloride is favorable for the process of titration. The results are shown in a table. On the basis of the

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20 experiments carried out simultaneously the average possibility of errors was stated to be 0.55%. In this case the content of aluminum, chromium, manganese, zinc, nickel, and some other elements contained in the solution did not prove to be disturbing. Titanium, pentavalent vanadium, oxidation substances, which are able to oxidize cupferron, or the regenerators which are able to produce anode diffusion current, proved to be disturbing. An example of the analysis experiment is given here. There are 4 references, 2 of which are Slavic.

ASSOCIATION: Dnepropetrovsk Chemical-Technological Institute imeni F.Z. Dzerzhinskiy (Dnepropetrovskiy khimiko-tekhnologicheskii institut im. F.Z.Dzerzhinskogo).

AVAILABLE: Library of Congress

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1. Zirconium-Determination
2. Amperometric titration
3. Cupferron

BEKLIN, M. K.

RECEPTION

"On the Noise Coefficient of a Superregenerative Receiver," by M. K. Beklin, Radiotekhnika, No 6, June 1957, pp 60-63

The author considers the various sources of noise in a superregenerative receiver and, by making several simplifying assumptions, he finds that the noise factor of a superregenerative receiver is only slightly higher than that of a superheterodyne.

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BEKMAVBETOV, R.

Dissertation: "The Genetic and Productive Features of Soils with Conglomerate Levels in the Lowlands of the Zailiy Ala-Tau." Card Agri Sci, Kazakh State Agricultural Inst, 28 Jun 54. (Kazakhstanskaya Pravda, Alma-Ata, 16 Jun 54)

SO: SUM 318, 23 Dec 1954

BEKMAN, Al'fred Andreyevich; ROSTISLAVINA, K.V., red.; SUTYRIN, M.A., retsen-
zent; KUSHCH, L.K., retsenzent; ALEKSHYEV, V.I., red. izd-va;
TSVETKOVA, S.V., tekhn. red.

[Manual for ship handlers in inland navigation] Posobie dlia sudo-
voditelia ozernogo plavaniia. Izd.2., dop. i perer. Moskva, Izd-vo
"Rechnoi transport," 1958. 185 p. (MIRA 11:8)
(Inland navigation) (Ship handling)

BEKMAN, Al'fred Andreyevich; RABINOVICH, M.M., retsenzent; KUSHCH, L.K.,
red.; MAKROSHINA, A.N., red.izd-va; BOBROVA, V.A., tekhn.red.

[Manual on the use of nautical instruments] Rukovodstvo po
ekspluatatsii shturmanskikh priborov. Moskva, Izd-vo "Rechnoi
transport," 1959. 117 p. (MIRA 13:2)
(Nautical instruments)

DERBENEVA-UKHOVA, V.P., prof.; TIMOSHKOV, V.V.; BEKMAN, A.M.

Effect of improved refuse dump organisation on fly multiplication.
Gig. i san. 24 no.4:33-37 Ap '59. (MIRA 12:7)

1. Iz Instituta malyarii, meditsinskoy parazitologii i gel'mintologii
Ministerstva zdavookhraneniya SSSR, sanitarno-epidemiologicheskoy
stantsii Moskvy i sanitarno-epidemiologicheskoy stantsii Leninskogo
rayona Moskovskoy oblasti.

(SANITATION,

refuse dumps, flies control (Rus))

(FLIES,

control in refuse dumps (Rus))

NIKOLIN, A.V.; BELOV, A.P., kapitan-nastavnik; VARLAMOV, I.S., kapitan-nastavnik; KOSMACHEV, I.K., kapitan-nastavnik; SARATOV, V.F., kapitan-nastavnik; SEMONIN, M.I., kapitan-nastavnik; BEKMAN, A.A., kapitan; DRUZHININ, A.V., kapitan; IVANINA, B.F., kapitan; POLE-TAYEV, L.A., kapitan; VESHCHILOV, K.A.; VYKHODTSEV, P.K.; SMOLDYREV, A.Ye.; VERESHCHAGIN, Ya.A.; SUTYRIN, M.A.; SAVOSTIN, N.D.; FILYASOV, K.A.; GOLOVUSHKIN, M.P.; IVANOV, A.I.; FILYASOV, K.A., otv.za vypusk; ALEKSEYEV, V.I., red.izd-va; YERMAKOVA, T.T., tekhn.red.

[Rules of navigation on R.S.F.S.R. inland waterways] Pravila plavaniia po vnutrennim vodnym putiam RSFSR. Vvedeny v deistvie s 1 marta 1959 g. prikazom ministra rechnogo flota no.28 ot 11 fevralia 1959 g. Moskva, Izd-vo "Rechnoi transport," 1959. 124 p. (MIRA 13:6)

1. Russia (1917- R.S.F.S.R.) Ministerstvo rechnogo flota. 2. Glavnyy revizor po bezopasnosti sudokhodstva (for Nikolin). 3. Nachal'niki besseyzovykh sudokhodnykh inspektsiy (for Veshchilov, Vykhodtsev, Smoldyrev). 4. Rabotniki Upravleniya glavnogo revizora po bezopasnosti sudokhodstva (for Vereshchagin, Sutyryn, Savostin, Filyasov). 5. Glavnoye upravleniye vodnykh putey i gidrotekhnicheskikh sooruzheniy (for Golovushkin).

(Inland navigation--Laws and regulations)

BEKMAN, M.Yu; BAZIKALOVA, A.Ya.

Biology and productive capacities of certain Baikal and Siberian
amphipeds. Trudy prebl.i tom.sev.no.1:61-67 '51. (MLRA 9:7)
(Baikal, Lake--Amphipeda)

BIRMAN, M.Yu.

Materials for a quantitative analysis of the benthonic fauna of the
Black Sea near Karadag. Trudy Karad.biol.sta. no.12:50-67 '52.
(BLACK SEA--MARINE FAUNA) (MIRA 9:9)

1. BEKMAN, M. Yu
2. USSR (600)
4. Baikal, Lake - Water - Physiological effect
7. Possibility of specific effect of Baikal water upon organisms.
Dokl. AN SSSR 87. no. 2. 1952.

9. Monthly List of Russian Accessions, Library of Congress, February 1953. Unclassified.

AUTHOR: Bekman, M. Yu.

SOV/ 20-120-1-58/63

TITLE: On Dwarf Males Among the Endemic Animals of Lake Baykal
(O karlikovykh santsakh u endomikov Baykala)

PERIODICAL: Doklady Akademii Nauk SSSR, 1958, Vol. 120, Nr 1,
pp. 208-211 (USSR)

ABSTRACT: The fauna of Lake Baykal is distinguished by many peculiarities which are consequences of its ancient origin as well as of a long and complicated history. Every new fact that contributes to the solution of this difficult problem is very interesting. At the station a peculiarity, as yet unknown, of some endemic animals of Lake Baykal could be discovered: the occurrence of dwarf males, and that among species that are not related at all, a fish and gammarid water fleas (reference 1). In fish usually both sexes have the same size. The male gammarid is usually taller than the female. The same fact applies to bottom-inhabiting bullheads of Lake Baykal, too. Among the fish with dwarf males of Lake Baykal there are very different elements in systematical and ecological

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On Dwarf Males Among the Endemic Animals of Lake Baykal OV20-120-1-58/63

respects. On the other hand it can be seen that a structural peculiarity of a respective population shows a tendency of developing in a circle of closely related forms (table 1). According to the author the forms with dwarf males are joined by one important fact - they form the young progressive or specialized part of the Baykal fauna. The appearance and further development of populations with dwarf males in Lake Baykal is connected with their most recent stages of development. The author tries to give a general explanation of the phenomenon treated. As is well known Lake Baikal is very rich in living creatures. On the other hand this lake is oligotrophic, that is deficient in food. Thus the nutritional relations are very complicated here, and the biocenotic factors must play an important, if not decisive part in the existence of every creature. Just in the sandy groundwater zones deficient in nutriment (reference 8) immense quantities of animals of a similar nutritional type and spectrum are concentrated. Also small gammarids with dwarf males live there in huge numbers (reference 9). Contrary to that the fish living on benthic food in Lake Baykal by far do not

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make use of the rich assortment of edible invertebrates of the lake. The biological adaptations of the bullheads spawning at the bottom are directed to the protection of future generations. This function falls to the males. If the accelerated maturity in the evolution of organisms leads to the formation of neotanic forms, and if this takes place under unfavorable conditions of existence, a specific neotanic form - the dwarf males - may be the answer to such conditions, a more complicated one and a more favorable one for the species, though. The result of the transformation is a highly economical structure of the population: the females are large and safeguard a great fertility, the males are sooner pubescent and save food at the scarce nutritional resources. The formation of dwarf males among species of animals not related at all may mean congruence. There are 1 figure, 1 table, and 11 Soviet references.

ASSOCIATION:
Card 3/4

Baykal'skaya limnologicheskaya stantsiya Akademii nauk SSSR
(Baykal Limnological Station, AS USSR)

On Dwarf Males Among the Endemic Animals of Lake Baykal SOV/120-1-58/53

PRESENTED: February 5, 1958, by I. I. Shmal'gauzen, Member, Academy
of Sciences, USSR

SUBMITTED: February 4, 1958

1. Aquatic animals--Physiology 2. Aquatic animals--Ecology

Card 4/4

BEKMAN, M.Yu.

Some characteristics of the distribution and productivity of
zoobenthic organisms occurring in large masses in the Maloye
More. Trudy Baik.limnol.sta. 17:342-381 '59.

(Maloye More--Fresh-water fauna)

(MIRA 12:12)

BEKMAN, M.Yu.

Lake Zagli-Nur. Trudy Baik.limnol.sta. 17:520-530 '59.
(Zagli-Nur, Lake) (MIRA 12:12)

BERMAN, M.Yu.

Ecology and production of *Micruropus posselskii* Sow. and
Gnelinoides fasciatus Stebb. Trudy Lim. inst. 2 pt. 1:141-
171 '62. (MIRA 16:8)

KUZNETSOV, Boris Vladimirovich; BEKMAN, Semen Markovich

[Increasing the power factor of the electrical systems
of industrial enterprises] Povyshenie koeffitsienta
moshchnosti elektroustanovok na promyshlennykh predpri-
iatiakh. Mosak, Nauka i tekhnika, 1964. 154 p.
(MIRA 17:11)

BEKMAN, V., inshener (Leningrad)

~~the very~~ fastest; from the history of absolute records.
Za rul. 14 no.6:19 S '56.

(MIRA 10:4)

(Motorcycle racing)

BEKMAN, V., inzhener.

Development of racing automobiles. Za rul. 15 no.4:16-17 Ap '57,
(Automobiles, Racing) (MLRA 10:6)

BEKMAN, V.

Front wheel alignment stand. Avt. transp. 35 no.5:21 My '57.

(MIRA 10:6)

1. Leningradskiy filial Nauchno-issledovatel'skiy institut avtomobil'nogo transporta.

(Automobiles--Wheels)

BEKMAN, V., inzh. (Leningrad)

Victory of two-cycle engines. Za rul. 18 no.7:26-27 JI '60.

(MIRA 13:10)

(Motorcycles—Engines)

BEKMAN, V.M.; SEYDALIN, O.A.

Origin time of the Karaganda trough. Izv.AN Kazakh.SSR. Ser.geol. no.5:
32-41 '62. (MIRA 15:12)

(Karaganda Basin—Geological time)

LEVCHENKO, V.M.; BERMAN, V.V.

Experimental data on the solubility of calcium carbonate in
aqueous solutions. Dokl. AN SSSR. 144 no.6:1366-1368 Je '62.
(MIRA 15:6)

1. Leningradskiy gosudarstvennyy pedagogicheskiy institut im.
A.I.Gertsena. Predstavleno akad. A.A.Grinbergom.
(Calcium carbonate) (Solubility)

BEKMAN, V. V.

BEKMAN, V.V.; MALAEHOVSKIY, A.E., redaktor.

[Construction and dynamics of racing automobiles] Konstruktsiia i
dinamika gonochnykh avtomobilei. Moskva, Gos. nauchno-tekhn. izd-vo
mashinostroit. lit-ry, 1947. 265 p. (MLRA 7:7)
(Automobiles, Racing)

BEKMAN, V. [V.]

USSR/Engineering
Motorcycles

Sep 48

"Czechoslovakian Motorcycles," V. Bekman, Engr,
1½ pp

"Automobil" No 9

Describes chief constructional features of four Czechoslovak motorcycles -- the Manet 90, the CZ 125, the Yava 250 and the Ogar 350. Includes photograph of each model. All four were demonstrated at an exhibition by Czechoslovak industry in Moscow.

16/49740

BEAMAN, V.

37483. Snortivnyi Mototsikl M-75. (Konstru-Ktsiya Izhitskogo Mototsikletnogo Zavoda). Avtomobil', 1949, No. 11, s. 20-21.

SO: Letopis' Zhurnal'nykh Štatey, Vol. 7, 1949

BEKMAN, V.

The M-77 road and racing motorcycle. Avt.transp.33 no.7:29-31
J1'55. (MLRA 8:12)

(Motorcycles)

BEKMAN, Vil'gel'm Vil'gel'movich; PAPMEL', S.V., redaktor; SHALYGINA, G.A.,
tekhnikheskiy redaktor

[Dynamics of racing motorcycles] Dinamika mototsiklov skorestnogo
tipa. Moskva, Gos. izd-vo "Fizkul'tura i sport," 1956. 185 p.
(Motorcycles) (MIRA 9:8)

BEKMAN, V.V.

Basic technical specifications of foreign passenger cars. Avt. 1
trakt.prom.no.10:43-46 0 '56. (MLRA 10:1)
(Europe, Western--Automobiles) (United States--Automobiles)

BEKMAN, Vil'gel'm VIL'gel'movich; MALAKHOVSKIY, A.E., inzh., retsenzent,;
IYERUSALIMSKIY, V.A., inzh., red.; GOFMAN, Ye.K., red. izd-va,;
SPERANSKAYA, O.V., tekhn. red.

[Racing cars] Gonochnye avtomobili. Moskva, Gos. nauchno-tekhn.
izd-vo mashinostroit. lit-ry, 1958. 264 p. (MIRA 11:10)
(Automobiles, Racing)

BEKMAN, V.V.

IVANITSKIY, Svyatoslav Yur'yevich, inzh.; IGNATOV, Yuriy Vladimirovich, inzh.;
KARMANOV, Boris Sergeyevich, inzh.; ROGOZHIN, Vsevolod Vyachislavo-
vich, inzh.; ~~BEKMAN, V.V.~~, inzh., retsenzent; GINTSBURG, M.G., retsen-
zent; SMELYANSKIY, V.A., inzh., red.; UVAROVA, A.P., tekhn.red.

[Motorcycles; construction, theory, design] Mototsikl; konstruktsiia,
teoriia, raschet. Moskva, Gos. nauchno-tekhn.izd-vo mashinostroit.
lit-ry, 1958. 503 p. (MIRA 11:4)
(Motorcycles)

MARKOVICH, Moisey Yefimovich; BEKMAN, Y.V., inzh., retsenzent;
BELETSKIY, G.A., inzh., red.; DUDUSOVA, G.A., red.izd-va;
SPERANSKAYA, O.V., tekhn.red.

[D-4 bicycle motor] Velosipednyi dvigatel' D4. Moskva, Gos.
nauchno-tekhn.izd-vo mashinostr.lit-ry, 1959. 92 p.
(MIRA 12:10)

(Bicycles and tricycles) (Gas and oil engines)

AUTHOR: Bekman, V.V. SOV/113-59-2-19/20

TITLE: Designs of Foreign Racing Cars (Konstruktsii zarubezhnykh gonochnykh avtomobiley)

PERIOD: Avtomobil'naya promyshlennost', 1959, Nr 2, pp 44-47 (USSR)

ABSTRACT: The author reviews racing car design in USA, England, Italy, France, and the German Federal Republic. There are 4 diagrams and 1 table.

ASSOCIATION: Leningrad Section of NIIAT

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BEKMAN, V.V.

Carburetors of sports and racing cars. Avt.prom. no.3:44-47
Mr '60. (MIRA 13:6)
(Automobiles, Racing--Engines--Carburetors)

BEKMAN, V.V.

Gearboxes of racing and sports cars. Avt.prom. no.11;44-48 M '60.
(MIRA 13:11)
(Automobiles, Racing--Transmission devices)

BEKMAN, Vil'gel'm Vil'gel'movich; IVANOV, A.A, inzh., retsenzent; IYERU-SALIMSKIY, V.A., inzh., red.; FOMICHEV, A.G., red. izd-va; BARDI-NA, A.A., tekhn. red.; SPERANSKAYA, O.V., tekhn. red.

[Racing motorcycles] Gonochnye mototsikly. Moskva, Gos.nauchno-tekhn.izd-vo mashinostroit.lit-ry, 1961. 166 p. (MIRA 14:12)
(Motorcycles)

BEKMAN, V.V.

New design of automobile carburetors manufactured by the "Solex" and "Zenith" plants. Avt.prom. 27 no.10:40-42 0 '61. (MIRA 14:10)

1. Tsentral'nyy nauchno-issledovatel'skiy i konstruktorskiy institut toplivnoy apparatury avtotraktornykh i statsionarnykh dvigateley.

(Automobiles—Engines—Carburetors)

BEKMAN, V.V.

Dynamics of modern racing cars. Avt.prom. 28 no.5:38-40 My
'62. (MIRA 15:5)
(Automobiles, Racing--Dynamics)

BERMAN, V.V.

Using multichamber carburetors in eight-cylinder V-engines.
Avt. prom. 28 no.7:45-47 J1 '62. (MIRA 16:6)

(Automobiles—Engines—Carburetors)

YUDOLOVICH, M.Ya.; HEKMAN, Yu.K., vedushchiy redaktor; TROPIMOV, A.V.,
tekhnicheskii redaktor

[Lubrication of equipment used in the petroleum industry; a reference
manual] Ssaska neftepromyslovoe oborudovaniia; spravochnoe rukovod-
stvo. Moskva, Gos. nauchno-tekhn. izd-vo neftianoi i gorno-toplivnoi
lit-ry, 1951. 47 p. (MIRA 10:1)

(Lubrication and lubricants)

(Petroleum industry--Equipment and supplies)

GUSEYNOV, T.A.; BURDIN, Yu.P., redaktor; BEKMAN, Yu.K., redaktor; TROFIMOV, A.V., tekhnicheskii redaktor.

[The hermetic method of Baronian and Vezirov for oil industries] Germetizatsiia neftiannykh promyslov po skheme Baroniana i Vezirova. Moskva, Gos. nauchno-tekhn. izd-vo neftianoi i gorno-toplivnoi lit-ry, 1951, 57 p. (Oil well drilling) (MIRA 8:4)

BEKMAN, Yu. K.

UDYANSKIY, N.Ya., redaktor; TUSHEV, N.L., redaktor; BEKMAN, Yu. K., vedushchiy redaktor; TROFIMOV, A.V., tekhnicheskii redaktor.

[Drill bits; transactions of the All-Union Conference of Petroleum Engineers] Burovye dolota; trudy Vsesoiuznogo soveshchaniia neftianikov. Moskva, Gos. nauchno-tekhn. izd-vo neftianoi i gorno-toplivnoi lit-ry, 1952. 224 p. (MLRA 8:1)

1. Russia (1923- U.S.S.R.) Ministerstvo neftyanoy promyshlennosti. Nauchno-tekhnicheskii sovet. (Petroleum--Well boring) (Boring machinery)

KAZ'MIN, V.M.; VOZDVIZHENSKIY, B.I., prof., red.; BEKMAN, Yu.K., vedushchiy
red.; POLOSINA, A.S., tekhn.red.

[Test-well drillers] Buril'shchik strukturnogo bureniia. Pod red.
B.I.Vozdvizhenskogo. Moskva, Gos.nauchno-tekhn.izd-vo نفت. i
gorno-toplivnoi lit-ry, 1952. 247 p. (MIRA 13:12)
(Oil well drilling)

ANDREYEV, A.G.; LAVRUSHKO, P.N., redaktor; BEKMAN, Yu.K., redaktor;
TROFIMOV, A.V., tekhnicheskii redaktor

[Engineer's manual on petroleum extraction] Spravochnik inzhenera po dobyche nefi. Moskva, Gos.nauchno-tekhn.izd-vo nefiianoi i gorno-toplivnoi lit-ry, 1953. 173 p. (MIRA 9:2)
(Petroleum engineering)

PREOBRAZHENSKIY, I.A.; SARKISYAN, S.G.; BAKIROV, A.A., redaktor;
BEKMAN, Yu.K., redaktor; POLOSINA, A.S., tekhnicheskii redaktor

[The minerals of sedimentary rocks (applied to the study of
petroleum deposits)] Mineraly oszdochnykh porod (primenitel'no k
izucheniiu neftenosnykh otlozhenii). Moskva, Gos. nauchno-tekhn.
izd-vo neftianoi i gorno-toplivnoi lit-ry, 1954. 462 p. (MLRA 7:10)
(Petroleum geology) (Mineralogy) (Rocks, Sedimentary)

BERENBLIUM, Lev L'vovich; YAKOVLEV, Arkadiy Illarionovich; ~~BEKMAN,~~
Yu.K., redaktor; TROFIMOV, Yu.K., tekhnicheskiiy redaktor

[Boring equipment assembler's handbook; rotary and turbine
drilling] Spravochnik montazhnika burovogo oborudovaniia;
rotornoe i turbinnoe burenie. Moskva, Gos.nauchno-tekhn.
izd-vo neftianoi i gorno-toplivnoi lit-ry, 1955. 254 p.
(Boring machinery) (MLRA 8:11)

ARKHANGEL'SKIY, Nikolay Konstantinovich; BEKMAN, Yu.K., redaktor; TROPIMOV,
A.V., tekhnicheskii redaktor

[Electrical equipment used in oil fields] Elektricheskoe oborudo-
vanie nefftianyykh promyslov. Moskva, Gos.nauchno-tekhn. izd-vo
neftianoi i gorno-toplivnoi lit-ry, 1955. 389 p. (MIRA 9:3)
(Petroleum industry--Equipment and supplies)

VASIL'YEV, V.G.; KOSYGIN, Yu.A., redaktor; BEKMAN, Yu.K., redaktor;
PERSHINA, Ye.G., redaktor; POLOSINA, A.S., ~~tekhnicheskii~~ redaktor.

[Natural gas handbook for a geologist] Spravochnik geologa po pri-
rodnomu gasu. Moskva, Gos.nauchno-tekhn. izd-vo neftianoi i gorno-
toplivnoi lit-ry. Vol.3. [Geological and prospecting work] Geologo-
poiskovye raboty]. 1955. 712 p. (MIRA 8:5)
(Gas, Natural--Geology) (Prospecting)

FANIYEV, R.D., redaktor; BEKMAN, Yu.K., redaktor; TROFIMOV, A.V., tekhnicheskiiy redaktor.

[Provisional rules for the technical exploitation of oil and gas fields] Vremennye pravila tekhnicheskoi ekspluatatsii neftiannykh i gazovykh mestoroshdenii. Moskva, Gos.nauchno-tekhn. izd-vo nef-tianoi i gorno-toplivnoi lit-ry, 1955. 187 p. (MIRA 8:4)

1. Russia (1923- U.S.S.R.). Ministerstvo nefiyanoy promyshlennosti. (Petroleum engineering) (Oil fields)

KALININ, Vladimir Ivanovich; SHTER, B.O., redaktor; REKMAN, Yu.K., vedushchiy redaktor; SHIKIN, S.T., tekhnicheskiiy redaktor

[Operation of tractor-mounted hoisting machinery] Eksploatatsiia
traktorov-pod"emnikov. Moskva, Gos. nauchno-tekhn. izd-vo neftianoi
i gorno-toplivnoi lit-ry, 1956. 174 p. (MLRA 9:12)
(Hoisting machinery) (Tractors)

GRINGOL'TS, L.A.; KOZYREV, S.M.; SIROTTA, B.L.; FILINA, M.D.; YURKEVICH,
V.S.; GUREVICH, Ya.D., redaktor; ~~BEKMAN, Yu.K.~~, vedushchiy
redaktor; POLOSINA, A.S., tekhnicheskiiy redaktor

[Manual of wages in the petroleum industry] Spravochnik po
zarabotnoi plate v neftianoi promyshlennosti. Izd. 2-oe, perer.
i dop. Moskva, Gos. nauchno-tekhn. izd-vo neftianoi i gorno-
toplivnoi lit-ry, 1956. 342 p. (MIRA 9:10)
(Wages) (Petroleum industry)

ZHEVAGO, Konstantin Aleksandrovich: ~~BEKMAN, Yu. K.~~ vedushchiy redaktor;
POLOSINA, A.S., tekhnicheskiiy redaktor

[Internal combustion engines used in well drilling] Dvigateli
vnutrennego sgoraniia, primeniayemye v burenii skvazhin. Izd-vo
neftianoi i gorno-toplivnoi lit-ry. 1956. 416 p. (MLRA 9:11)
(Gas and oil engines)
(Oil well drilling--Equipment and supplies)

LAVRUSHKO, Petr Nesterovich; BERMAN, Yu.K., vedushchiy redaktor; POLOSINA, A.S., tekhnicheskiiy redaktor

[Underground well repairs] Podzemnyi remont skvashin. Moskva, Gos. nauchno-tekhn. izd-vo neftianoi i gorno-toplivnoi lit-ry, 1956.
386 p. (MLRA 9:12)

(Oil wells--Equipment and supplies--Repairing)

BERMAN, Yu. K.

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ABSTRACT: The authors have investigated the effect of the presence of Ne, Ar, Kr, and Xe on the operation of a cesium arc in the 0.5 to 1.0 mm gap between a hot molybdenum foil cathode and a niobium anode. The apparatus was sealed off at 10^{-7} mm Hg after having been cleansed by the usual vacuum techniques. The cesium pressure was controlled by varying the temperature of a branch tube containing metallic cesium, the temperature of the remainder of the apparatus being kept 30 to 50° C higher. The inert gas was admitted in successive doses by breaking tubes containing it. The cesium pressure was varied from 0.0275 to 3.9 mm Hg, and inert gas pressures up to 234 mm Hg were investigated. Very small additions of inert gas increased the plateau of the current-voltage characteristic by some 0.1 V, but further increase of the inert gas pressure led to deterioration of the characteristics of the converter.

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The presence of the inert gas decreased the saturation current. The saturation current under different conditions was calculated with the aid of the diffusion theory of B.Ya.Moyzhes and G.Ye.Pikus (FTT, 2, 756, 1960), and the results are compared with the measured values. The measured saturation currents were usually from 2 to 10 times lower than the calculated currents. This is ascribed to increase of the inert gas concentration in the hot region between the electrodes as a result of thermal diffusion of the inert gas cesium mixture. Xenon reduced the saturation current less than did neon or krypton; this is ascribed to the fact that the atomic mass of xenon is closer than that of neon or krypton to the atomic mass of cesium. A formula is derived for the thermal diffusion ratio, and with the aid of this formula and the assumption that the observed deviations from the moyzhes-Pikus theory are due to thermal diffusion, values of the Kr-Cs and Xe-Cs cross sections were calculated from the experimental data. The Kr-Cs and Xe-Cs cross sections were thus found to be 8×10^{-14} and $1.05 \times 10^{-13} \text{ cm}^2$, respectively. The authors thank S.I.Kutashev and V.I.Klinov for assistance in constructing the apparatus and performing the measurements. Orig. art. has: 11 formulas, 6 figures and 3 tables. [15]

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